

3/3 DWPI

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**Titre**

Patch esp. for visceral surgery - comprises two superimposed layers of bio-material, e.g. fibrous collagen and gelatin film

**Données de publication**

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WO8908467 A 19890921 DW1989-40 Fre 23p \* AP: 1989WO-FR00108 19890315 DSNW: JP US DSRW: AT BE CH DE FR GB IT LU NL SE

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EP-357755 A 19900314 DW1990-11 Fre AP: 1989EP-0903498 19890315 DSR: AT BE CH DE FR GB IT LI LU NL SE

JP03503371 W 19910801 DW1991-37

US5201745 A 19930413 DW1993-17 A61B-017/00 5p AP: 1989US-0458748 19891215; 1991US-0746199 19910815

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**Résumé**

**Basic**

WO8908467 A The patch, for use in visceral surgery, is made from a biomaterial comprising two superimposed layers of a collagen which are joined closely together, e.g. one porous layer of a fibrous collagen and a film layer of a collagen or gelatine. The density of the patch should not be greater than 8 mg/cm<sup>2</sup> and the porous layer and film can have densities of 2 and 1 mg/cm<sup>2</sup> respectively.

The patch can be made, for example, by pouring a solution of the film collagen onto a fibrous layer of the appropriate shape, allowing it to become at least partially impregnated. The fibrous layer can be made from a collagen of human origin, comprising some 2 - 30 per cent collagen in its dry state and a thickness of 100 microns to 8 mm, while the film layer is preferably 10 - 50 microns thick.

**ADVANTAGE** - Improved repair of visceral tubes after damage.

**Equiv. Europ.**

EP-357755 B A visceral surgery patch, characterised in that it is made from a biomaterial made up of two superimposed and intimately associated layers of non-cured collagen and/or of collagen which has been cured by periodic oxidation, that is to say a porous layer of fibrous collagen obtained from a collagen preparation which is freeze-dried or treated with acetone for providing a compress which is packed down, and a collagen and/or gelatin film. (Dwg.0/0)

**Equiv. US**

US5201745 A The visceral surgery patch has a first biodegradable layer forming a film selected from the group consisting of a biodegradable collagen, gelatin and mixtures. A second biodegradable porous layer is of fibrous biodegradable collagen. The first and second biodegradable layers are directly superimposed and the first biodegradable layer at least partially impregnating the second biodegradable layer. The patch having a density of at most 8 mg/cm squared. **ADVANTAGE** - Allows improved healing of visceral surgery. (Dwg.0/0)

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①9 RÉPUBLIQUE FRANÇAISE

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①2 **DEMANDE DE BREVET D'INVENTION**

**A1**

②2 Date de dépôt : 15 mars 1988.

③0 Priorité :

④3 Date de la mise à disposition du public de la  
demande : BOPI « Brevets » n° 38 du 22 septembre 1989.

⑥0 Références à d'autres documents nationaux appa-  
rentés :

⑦1 Demandeur(s) : *IMEDEX, société anonyme.* — FR.

⑦2 Inventeur(s) : Jean-Louis Tayot ; Jacques Marescaux ;  
Henri Dumas ; Michel Tardy.

⑦3 Titulaire(s) :

⑦4 Mandataire(s) : Cabinet Lemoine et Bernasconi.

⑤4 Patch de chirurgie viscérale.

⑤7 La présente invention a trait à un patch de chirurgie  
viscérale réalisé à partir d'un biomatériau formé de deux  
couches de collagène superposées et associées intimement, à  
savoir une couche poreuse collable de collagène fibreux et un  
film de collagène et/ou de gélatine.

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